PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

pplicant's or agent's file reference			
3158WOOP	FOR FURTHER ACTION	See Form PCT/IPEA/416	
International application No.	International filing date (day/month/year)	Priority date (day/month/year)	
PCT/JP2004/002774	04.03.2004	04.03.2003	
International Patent Classification (IPC) or nati	ional classification and IPC		
1			
Applicant		·-····································	
TAKEDA PHARMACEUTICA	L COMPANY LIMITED		
This report is the international prelimater and transmitted to the under Article 35 and transmitted to the under Article	minary examination report, established by this ne applicant according to Article 36.	International Preliminary Examining Authority	
2. This REPORT consists of a total of	7 sheets, include	ng this cover sheet.	
3. This report is also accompanied by A	NNEXES, comprising:		
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:	
sheets of the descrip	ption, claims and/or drawings which have been	amended and are the basis for this report and/or	
sheets containing re Instructions).	ectifications authorized by this Authority (see F	tule 70.16 and Section 607 of the Administrative	
		onsiders contain an amendment that goes beyond	
the disclosure in th Box.	e international application as filed, as indicate	d in item 4 of Box No. I and the Supplemental	
b. (sent to the International	Ruragy arthul a total of (indicate time and num)	han of alastronia comicu(a))	
1 disk			
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see			
Section 802 of the Administrative Instructions).			
4. This report contains indications relat	ing to the following items:		
Box No. I Basis of the	e report		
Box No. II Priority			
Box No. III Non-establ	ishment of opinion with regard to novelty, inve	ntive step and industrial applicability	
Box No. IV Lack of un	ity of invention		
	statement under Article 35(2) with regard to not account of explanations supporting such statement	velty, inventive step or industrial applicability;	
1 🗆	cuments cited		
Box No. VII Certain def	fects in the international application		
Box No. VIII Certain obs	servations on the international application		
Date of submission of the demand		this senort	
Date of submission of the demand Date of completion of this report			
Name and mailing address of the IPEA/JP Authorized officer			
Daniel Market	Authorized Whitel		
Facsimile No.	Telephone No.		
I desimile 110.	i elephone ivo.		

International application No.
PCT/JP2004/002774

Box	No. I	Basis of the report	
1.	With	regard to the language, this report is based on the internation ated under this item.	al application in the language in which it was filed, unless otherwise
		This report is based on translations from the original languag which is the language of a translation furnished for the purpo	ge into the following language, sees of:
		international search (Rule 12.3 and 23.1(b))	
		publication of the international application (Rule 12.4)	
		international preliminary examination (Rule 55.2 and/o	or 55.3)
2.	recei	regard to the elements of the international application, this reving Office in response to an invitation under Article 14 are report): the international application as originally filed/furnished the description:	eport is based on (replacement sheets which have been furnished to the referred to in this report as "originally filed" and are not annexed to
		pages	as originally filed/furnished
		pages*	
		pages*	
		the claims:	, <u> </u>
	_		as originally filed/furnished
		nos.*	
		nos.*	
		nos.*	<u> </u>
		the drawings:	Tooling of the Authority on
		sheets	
			as originally filed/furnished
			<u> </u>
	\square		
		a sequence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence Listing.
3.	Ш	The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
4.		This report has been established as if (some of) the amenda they have been considered to go beyond the disclosure as fil	ments annexed to this report and listed below had not been made, since ed, as indicated in the Supplemental Box (Rule 70.2(c)).
		the description, pages	
		the claims, nos.	
		the drawings, sheets/figs	
•	If ite	m 4 applies, some or all of those sheets may be marked "supe	erseded."

International application No.
PCT/JP2004/002774

Box No. II	I Non-e	stablishment of opinion	with regard to novelty, inventive step and industrial applicability
		e claimed invention app examined in respect of:	pears to be novel, to involve an inventive step (to be non obvious), or to be industrially
	the entire inter	national application	
\bowtie	claims Nos.	20	
becaus	e:		
\boxtimes	the said internated relate to the fo	ational application, or the llowing subject matter w	said claims Nos. 20 hich does not require an international preliminary examination (specify):
	(Claim 20 per	ctains to a method for the treatment
	of the	human body	by means of therapy.
	-		dicate particular elements below) or said claims Noson could be formed (specify):
	the claims, or	said claims Nos.	are so inadequately supported
		tion that no meaningful o	
\boxtimes	no internation	al search report has been	established for said claims Nos. 20
	the nucleotide Instructions in		ence listing does not comply with the standard provided for in Annex C of the Administrative
	the written for	rm	has not been furnished
			does not comply with the standard
	the computer	readable form	has not been furnished
			does not comply with the standard
			d/or amino acid sequence listing, if in computer readable form only, do not comply with the Annex C-bis of the Administrative Instructions.
	See Suppleme	ental Box for further detain	ils.

International application No.
PCT/JP2004/002774

Box	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims	1-19, 21	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-19, 21	NO NO
	Industrial applicabilit	y (IA) Claims	1-19, 21	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

Claims 1 to 19 and 21

The following document is cited in the international search report.

Document 1: JP 2002-500509 A & WO 98/49309 A

Document 1 discloses the feature of using antibodies against ST38.2, which is homologous to MIP-3 α , for the diagnosis and treatment of neuritis; the feature of using ST38.2 antagonists and/or ST38.2 inhibitors for the prevention and treatment of neuritis; the feature of treating disorders that are associated with the ST38.2 peptide by means of the antisense method; and the feature of screening for medicinal substances by means of the polypeptide of the ST38.2 gene.

It is thought that treating neuritis will ultimately serve to protect the brain/nerve cells; therefore, "therapeutic agents against neuritis" can be said to be one type of "agent for protecting brain/nerve cells."

In addition, a person skilled in the art could substitute the antibodies, antagonists and the like which

International application No.
PCT/JP2004/002774

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive st citations and explanations supporting such statement	tep or industrial applicability;
are	associated with MIP-3 $lpha$ for the antibody	dies,
ant	agonists and the like which are associa	ated with
ST	8.2, as appropriate.	
	As a result, claims 1 to 19 and 21 of	do not involve
an	inventive step.	
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International application No.
PCT/JP2004/002774

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1, 2, 4 to 11 and 21

Claim 1 pertains to agents for protecting brain/nerve cells, which comprise a compound that is defined by a desired property, i.e. being a "substance that inhibits proteins...represented by SEQ ID NO: 2, 4 and 6, or a salt thereof," as the active component; therein, claim 1 includes any compound which exhibits such a property. However, only an extremely small portion of the claimed compounds can be considered to be disclosed in the meaning of PCT Article 5; therefore, claim 1 cannot be considered to be supported by the disclosures of the description in the meaning of PCT Article 6.

In addition, it is impossible to specify the scope of the compounds that exhibit the desired property of being a "substance that inhibits proteins...represented by SEQ ID NO: 2, 4 and 6, or a salt thereof," even with consideration of common technical knowledge at the time the present application was filed; therefore, claim 1 does not conform to the requirement of clarity as stipulated in PCT Article 6.

Likewise, claims 2, 4 to 11 and 21 cannot be considered to be supported by the disclosures of the description in the meaning of PCT Article 6, and do not conform to the requirement of clarity as stipulated in PCT Article 6.

Form PCT/IPEA/409 (Box VIII) (January 2004)

International application No.

PCT/JP2004/002774

Supplemental Box Relating to Sequence Listing		
Continuation of Box No. I, item 2:		
With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this report was established on the basis of:		
a. type of material a sequence listing table(s) related to the sequence listing		
b. format of material in written format in computer readable form		
c. time of filing/furnishing contained in the international application as filed filed together with the international application in computer readable form furnished subsequently to this Authority for the purposes of search and/or examination received by this Authority as an amendment* on		
2. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.		
3. Additional comments:		
 If item 4 in Box No. I applies, the listing and/or table(s) related thereto, which form part of the basis of the report, may be marked "superseded." 		